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APPLICATION NO. FILING DATE		ING DATE	FIRST NAMED INVENTOR  Mustafa Akram	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,912	09/937,912 01/24/2002			H 3933 PCT/US	
423	7590	09/30/2003			
HENKEL C			EXAMINER		
2500 RENA STE 200	ISSANCE	BLVD	ELHILO, EISA B		
GULPH MILLS, PA 19406				ART UNIT	PAPER NUMBER
				1751	
				DATE MAILED: 09/30/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)					
•	Application No.	Applicant(s)					
Office Action Summary	09/937,912	AKRAM ET AL.					
Office Action Summary	Examiner	Art Unit					
,	Eisa B Elhilo	1751					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the C	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed rs will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 24 J	anuary 2002 .						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	s action is non-final.						
<ol> <li>Since this application is in condition for allowa closed in accordance with the practice under I Disposition of Claims</li> </ol>							
4)⊠ Claim(s) 14-32 is/are pending in the applicatio	n.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) <u>14-32</u> is/are allowed.							
6)⊠ Claim(s) is/are rejected.							
7) ☐ Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) accep							
Applicant may not request that any objection to the	_ *						
11) The proposed drawing correction filed on		oved by the Examiner.					
If approved, corrected drawings are required in rep	•						
12) The oath or declaration is objected to by the Exa	aminer.						
Priority under 35 U.S.C. §§ 119 and 120	- 1- 11 1 05 H O O 0 440/	-) (-1) (0)					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(8	a)-(a) or (ī).					
a) ⊠ All b) ☐ Some * c) ☐ None of:	a have been received						
1. Certified copies of the priority documents		ion No					
2. Certified copies of the priority documents							
<ul><li>3.  Copies of the certified copies of the prior application from the International But</li><li>* See the attached detailed Office action for a list</li></ul>	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(	e) (to a provisional application).					
<ul> <li>a) ☐ The translation of the foreign language pro</li> <li>15)☐ Acknowledgment is made of a claim for domesti</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)					
0.0							

Art Unit: 1751

Claims 14-32 are pending in this application.

## **DETAILED ACTION**

- This action is responsive to the supplemental amendment filed on January 24, 2002.
- The cancellation of claims 1-13 is acknowledged. Pending claims are 14-32.

## Claim Rejections - 35 USC § 103

- 3 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-23 and 26-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawkins et al. (US 5,843,193) in view of Akram et al. (US 5,494,489).

Hawkins (US' 193) teaches a hair dyeing composition comprising cationic conditioning of quaternary ammonium salts as claimed in claims 14 and 17 (see col. 9, lines 50-67 and col. 10, lines 1-14), dye precursors as claimed in claims 14 and 23 (primary intermediates) (see col. 2, lines 17-67), anionic tensides (anionic surfactants) of water soluble soaps as claimed in claims 15 and 16 (see col. 7, line 9), cationic polymers of quaternary derivative of cellulose as claimed in claims 18, 19 and 27 (see col. 10, lines 56-60), silicone fluids (oil) as claimed in claim 22 (see col. 12, line 21) and hydrolyzed protein as claimed in claim 21 (see col. 14, Example 1). Hawkins also teaches a method for dyeing hair comprising applying to the hair the dyeing composition as described above, wherein the method is similar to the claimed method as claimed in claims 28-32 (see col. 14, lines 1-23).

Art Unit: 1751

1

The instant claims differ from the reference by reciting a composition comprising a quaternary ammonium phospholipids compounds of the claimed formula (I) in which R is represented by the claimed formula (II). Also, the reference does not teach or disclose the compounds that represented the claimed formula (I) as claimed in claims 26 and 31. Further, the reference does not teach a cationic polymer of polyquaternium-2 as claimed in claim 20.

However, the primary reference teaches a dyeing composition that comprises cationic conditioning such as polyquaternium 10 and quaternary ammonium salts (see col. 10, lines 56-65).

Akram (US' 489) in analogous art of hair dyeing composition, teaches a composition comprising tris(3-N,N-dimethyl-N-linolenamidopropyl-2-hydroxyammoniumpropyl) phosphoric acid ester-trichloride (Phospholipids EFA) (described in U.S. Pat. No. 4,209,449 incorporated herein by reference) (see col. 3, lines 61-64) wherein the reference's compound may represented by a formula similar the claimed formula (I), when in the claimed formula (I), Y is 0, A is oxy-2-hydroxypropy (-O-CH2-CHOH-CH2-) and R³ is monounsaturated C8 to C18 acyl radical and when in the reference the compound of tris(3-N,N-dimethyl-N-linolenamidopropyl-2-hydroxyammoniumpropyl)phosphoric acid ester-trichloride (Phospholipids EFA) represents 2-hydroxypropyl radical attached from one side to a quaternary ammonium radical carrying two methyl radicals and a tertiary amine radical having monounsaturated C18 acyl radical to form a linolenamide group and attached from other side to a phosphoric radical.

Therefore, In view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to modify the composition of the primary reference by incorporating the tris(3-N,N-dimethyl-N-linolenamidopropyl-2-

Art Unit: 1751

hydroxyammoniumpropyl) phosphoric acid ester-trichloride (Phospholipids EFA) as taught by Akram to make such a composition with a reasonable expectation of success. Such modification would be obvious because the primary reference suggests the used of the cationic conditioning of a polymeric quaternary ammonium salts (see col. 10, lines 56-64) and the secondary reference teaches clearly the use of Phospholipid compounds in the hair colorant composition succeeds in achieving an improvement in the area of wet-combing behavior by 48% (see col. 4, lines 48-53), and, thus, a person of the ordinary skill in the art would be motivated to incorporate the phospholipids compounds in the hair dyeing composition in order to improve the wet-combing behavior, absent, unexpected results.

With respect to claim 20 it would have been obvious to one having ordinary skill in the art at the time the invention was made to make such a composition by incorporating the cationic polymer of polyquaternium-2 in the composition of the primary reference because the primary reference teaches a hair dyeing composition comprising a cationic polymer of polyquaternium-10 as a cationic conditioning agent (see col. 10, line 62), and, thus, a person of an ordinary skill in the art would expect such a composition to have similar properties to those claimed, absent unexpected results.

4 Claims 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hawkins et al. (US 5,843,193) in view of Akram et al. (US 5,494,489) and further in view of Cotteret et al. (US 5,580,357).

The disclosures of Hawkins (US' 193) and Akram (US' 489) are summarized above. The references do not teach or disclose at least one indole derivatives or indoline derivatives as

Art Unit: 1751

claimed in claim 24. The references also do not teach at least one substantive dye or natural dye as claimed in claim 25.

However, the primary reference of Hawkins (US' 193) teaches a dyeing composition comprising that may comprise a number of dyeing ingredients (primary intermediates and couplers) (see col. 2, lines 21-67 and col. 3, lines 10-55) and the secondary reference of Akram (US' 489) teaches a colorant composition comprising one or more developers, one or more couplers and direct absorbing dyes (see col. 2, lines 11-12 and lines 15-27).

Cotteret (US' 357) in other analogous art of hair dyeing composition, teaches a composition comprising indole derivatives as claimed in claim 24 (see col. 4, line 5) and substantive dyes such as azo or anthroquinone dyes as claimed in claim 25 (see col. 4, lines 8-9).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made to be motivated to modify the composition of the primary reference by incorporating the indole derivatives and the substantive dyes as taught by Cotteret to make such a composition with a reasonable expectation of success. Such modification would be obvious because the reference of Cottert teaches that other coupling agents (indole derivatives) and/or direct dyes (substantive dyes) are used in the composition in particular to tinting or enriching with glints the colors provided by the oxidation dye precursors (see col. 3, lines 63-67), and, thus, a person of the ordinary skill in the art would be motivated to incorporate these dyeing ingredients of indole derivatives and/or substantive dyes in the hair dyeing composition in order to enrich the color with glints, and would expect such a composition to have similar properties to those claimed, absent unexpected results.

Application/Control Number: 09/937,912 Page 6

Art Unit: 1751

## Conclusion

The remaining references listed on form 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B Elhilo whose telephone number is (703) 305-0217. The examiner can normally be reached on M - F (7:30-5:00) with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (703) 308-0661. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Eisa Elhilo
Patent Examiner
Art Unit 1751

September 16, 2003